

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  P103523WO	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No.  PCT/GB2004/003745	International filing date (day/month/year)  01/09/2004	(Earliest) Priority Date (day/month/year)  01/09/2003
Applicant  SECRETARY OF STATE FOR DEFENCE DSTL		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

**4. With regard to the title,**

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**MODULATION SIGNALS FOR A SATELLITE NAVIGATION SYSTEM**

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. With regards to the drawings,**

- a. the figure of the **drawings** to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

Int. Application No  
PCT/GB2004/003745

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01S1/00 H04B1/707

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RIES L ET AL: "A software simulation tool for GNSS2 BOC signals analysis" PROCEEDINGS OF THE INSTITUTE OF NAVIGATION (ION) GPS, XX, XX, 24 September 2002 (2002-09-24), pages 2225-2239, XP002273298 page 2228 - page 2229; figures 5-8	1-97
X	US 6 430 213 B1 (DAFESH PHILIP A) 6 August 2002 (2002-08-06) column 3, lines 24-45 column 6, line 65 - column 8, line 11; figure 1	1-97
X	US 5 729 570 A (MAGILL DAVID T) 17 March 1998 (1998-03-17) column 3, lines 26-47; figure 2	1-97

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*8\* document member of the same patent family

Date of the actual completion of the international search

16 December 2004

Date of mailing of the international search report

30/12/2004

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Horbach, C

# INTERNATIONAL SEARCH REPORT

Int. Patent Application No.  
PCT/GB2004/003745

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	BETZ J W: "THE OFFSET CARRIER MODULATION FOR GPS MODERNIZATION" PROCEEDINGS OF THE ION NATIONAL TECHNICAL MEETING, THE INSTITUTE OF NAVIGATION, US, 1999, pages 639-648, XP008025723 page 641 - page 642 -----	1-97
A	RF DESIGN - FUNDAMENTALS OF DIGITAL QUADRATURE MODULATION, vol. 2003, no. February, 1 February 2003 (2003-02-01), pages 40-47, XP002310836 BELLEVUE, NEVADA, USA pages 42,44 -----	1-97

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Int. Application No

PCT/GB2004/003745

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6430213	B1	06-08-2002	NONE
US 5729570	A	17-03-1998	AT 269612 T 15-07-2004
		AU 5849696 A 07-08-1996	
		CA 2206866 A1 25-07-1996	
		DE 69533170 D1 22-07-2004	
		EP 0796529 A2 24-09-1997	
		WO 9622638 A2 25-07-1996	